

IN THE CLAIMS

Please amend the claims as indicated below.

1. (Previously Presented) A multicomponent system, comprising
 - (I) at least one component comprising
 - (A) at least one oligomer, polymer, or combination thereof, comprising on average at least two allophanate groups, carbamate groups or at least one carbamate group and at least one allophanate group,
 - (B) at least one oligomer, polymer, or combination thereof, comprising on average at least two isocyanate-reactive functional groups,
 - (C) at least one partly or fully alkylated amino resin comprising N-methylol ether groups or N-methylol and N-methylol ether groups, and
 - (D) at least one compound comprising on average at least two groups which can be activated with actinic radiation, selected from the group consisting of pentaerythritol tetraacrylate, dipentaerythritol pentaacrylate, aliphatic urethane acrylates having six acrylate groups in the molecule, and a combination thereof;and
 - (II) at least one component comprising
 - (E) at least one polyisocyanate,

with the proviso that the equivalents ratio of isocyanate groups in component (II) to isocyanate-reactive functional groups in component (I) is from 0.2:1 to 1:0.2 and the equivalents ratio of allophanate groups and carbamate groups in the oligomer and polymer (A) to the N-methylol and N-methylol ether groups in the amino resin (C) is from 0.2:1 to 1:0.2.

2. (Previously Presented) The multicomponent system of claim 1, wherein the equivalents ratio of crosslinking agent groups to binder groups is from 0.2:1 to 1:0.2, wherein the crosslinking agent groups comprise the isocyanate groups, the N-methylol groups, and the N-methylol ether groups, and wherein the binder groups comprise the isocyanate-reactive functional groups, the allophanate groups, and the carbamate groups.

3. (Previously Presented) The multicomponent system of claim 2, wherein the equivalents ratio of crosslinking agent groups to binder groups is from 0.25:1 to 1:0.25.

4. (Previously Presented) The multicomponent system of claim 1, wherein the equivalents ratio of isocyanate groups in component (II) to isocyanate-reactive functional groups in component (I) is from 0.3:1 to 1:0.3.

5. (Previously Presented) The multicomponent system of claim 1, wherein the equivalents ratio of allophanate groups and carbamate groups in the oligomer and polymer (A) to the N-methylol and N-methylol ether groups in the amino resin (C) is from 0.3:1 to 1:0.3.

6. (Previously Presented) The multicomponent system of claim 1, wherein the oligomers and polymers (A) and (B) are selected from the group consisting of random, alternating, and block, linear, branched, and comb polyaddition resins, polycondensation resins, and addition (co)polymers of ethylenically unsaturated monomers.

7. (Previously Presented) The multicomponent system of claim 6, wherein the polyaddition resins and polycondensation resins are selected from the group consisting of polyesters, alkyds, polyurethanes, polylactones, polycarbonates, polyethers, epoxy resin-amine adducts, polyureas, polyamides and polyimides and mixtures thereof, and the addition (co)polymers are selected from the group consisting of (meth)acrylate (co)polymers and polyvinyl esters and mixtures thereof.

8. (Previously Presented) The multicomponent system of claim 1, wherein the oligomer, polymer, or combination thereof (A) comprise a minor amount of isocyanate-reactive functional groups.

9. (Previously Presented) The multicomponent system of claim 1, wherein the oligomer, polymer, or combination thereof (B) comprise a minor amount of allophanate groups, carbamate groups, or combination thereof.

10. (Presently Amended) The multicomponent system of claim 9, wherein the oligomer, polymer, or combination thereof (B) comprises a minor amount of allophanate groups, in an amount of ~~is up to~~ not more than 30 equivalent%, based on the total allophanate groups, carbamate groups, and isocyanate-reactive functional groups present in the oligomer and polymer (A) or in the oligomer and polymer (B).

11. (Previously Presented) The multicomponent system of claim 1, wherein the isocyanate-reactive functional groups are selected from the group consisting of hydroxyl groups, thiol groups, and primary and secondary amino groups and mixtures thereof.

12. (Previously Presented) The multicomponent system of claim 1, wherein the amino resin (C) is alkylated with methyl groups, n-butyl groups, or a combination thereof.

13-16. (Canceled)

17. (Previously Presented) The multicomponent system of claim 1, wherein the polyisocyanate (E) comprises blocked isocyanate groups in minor amounts.

18. (Previously Presented) The multicomponent system of claim 1, wherein the polyisocyanate (E) comprises at least one group which can be activated with actinic radiation.

19. (Previously Presented) The multicomponent system of claim 1, wherein component (I) comprises

- from 5 to 30% by weight of (A),
- from 5 to 30% by weight of (B),
- from 1 to 10% by weight of (C), and

- from 20 to 70% by weight of (D),

based in each case on the solids of component (I).

20. (Previously Presented) The multicomponent system of claim 1, wherein component (II) comprises, based on the solids, from 50 to 100% by weight of polyisocyanate (E).

21. (Previously Presented) The multicomponent system of claim 1, wherein component (I), component (II), or a combination thereof comprise at least one additive (F).

22. (Previously Presented) A mixture comprising the multicomponent system of claim 1, curable thermally and with actinic radiation.

23. (Previously Presented) The mixture of claim 22, wherein the mixture is prepared by mixing at least one component (I) and at least one component (II) with one another and homogenizing the resulting mixture.

24. (Previously Presented) The mixture of claim 23, wherein the at least one component (I) is mixed with the at least one component (II) in a weight ratio of from 20:1 to 2:1.

25. (Previously Presented) A composition selected from the group consisting of moldings, films, coating materials, adhesives, and sealants comprising the mixture of claim 22.

26. (Previously Presented) The composition of claim 25, wherein the moldings, films, coating materials, adhesives and sealants comprise wrapping, packaging, coating, impregnation, adhesive bonding or sealing of aircraft, boats, rail vehicles, vehicles driven by muscle power, motor vehicles, parts thereof, the interior or exterior of buildings or parts thereof, furniture, doors, windows, hollow glassware, coils, containers, packaging, mechanical components, optical components, electrical components, white goods, household appliances, boilers, or radiators.

27. (Previously Presented) A multicomponent system for use in a clearcoat, comprising:

(I) at least one component comprising

(A) from 5 to 30% by weight of at least one (meth)acrylate copolymer comprising on average at least two carbamate groups,

(B) from 5 to 30% by weight of at least one (meth)acrylate copolymer, different from (A), comprising on average at least two isocyanate-reactive hydroxyl groups,

(C) from 1 to 10% by weight of at least one partly or fully alkylated amino resin comprising N-methylol ether groups or N-methylol and N-methylol ether groups, and

(D) from 20 to 70% by weight of at least one compound comprising on average at least two groups which can be activated with actinic radiation, selected from the group consisting of pentaerythritol tetraacrylate, dipentaerythritol pentaacrylate, aliphatic urethane acrylates having six acrylate groups in the molecule, and a combination thereof;

and

(II) at least one component comprising

(E) from 50 to 100% by weight of at least one polyisocyanate,

with the proviso that the equivalents ratio of isocyanate groups in component (II) to isocyanate-reactive functional groups in component (I) is from 0.2:1 to 1:0.2, and the equivalents ratio of allophanate groups and carbamate groups in the (meth)acrylate copolymer (A) to the N-methylol and N-methylol ether groups in the amino resin (C) is from 0.2:1 to 1:0.2;

wherein the multicomponent system is curable thermally and with actinic radiation.

28. (Previously presented) The multicomponent system of claim 27, wherein the (meth)acrylate copolymer (A) comprises only carbamate groups or carbamate groups and hydroxyl groups, and wherein the (meth)acrylate copolymer (B) comprises only hydroxyl groups or hydroxyl groups and carboxyl groups.